

L 27220-66 EWT(m)

ACC NR: AM6002131

Monograph

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22

B+1

Frolov, Nikolay Prokhorovich; Bessonov, Valeriy Georgiyevich; Zalogo, Vitaliy
Fedorovich; Petsol'd, Timofey Maksimovich; Smekh, Ivan Vasil'yevich

Mesh-reinforced concrete⁵ constructions (Armotsementnyye konstruksii) Minsk, Nauka i
tekhnika, 1965. 90 p. illus., biblio. 2000 copies printed.

TOPIC TAGS: construction material, reinforced concrete, engineering technology

PURPOSE AND COVERAGE: The book recommends technology to be used in manufacturing
reinforced-concrete structures. It summarizes the results of the investigations of
rigidity and crack-resistance of reinforced concrete and analyzes some particular
features of its work and design. In addition, an example of the design of a
reinforced concrete structure is given, and the results of an experimental investi-
gation of its performance are outlined. The book is intended for engineers and
technicians working in building and designing organizations, as well as for students
specializing in construction and research workers in this field. There are 46
references, of which 26 are Soviet.

TABLE OF CONTENTS:

Introduction -- 3

Ch. I. Use of reinforced concrete in construction -- 5

Card 1/2

L 27220-66

ACC NR: AM6002131

Ch. II. Materials and techniques in making reinforced concrete structures -- 12

Ch. III. Investigation of the physical and mechanical properties of reinforced concrete -- 22

Ch. IV. Features in the performance of reinforced concrete -- 47

Ch. V. Design of reinforced concrete structures -- 73

Bibliography -- 89

SUB CODE: 11/ SUBM DATE: 09Jul65/ ORIG REF: 029/ OTH REF: 017/

Card 2/2 CC

ACCESSION NR: AP4019819

S/0279/64/000/001/0180/0183

AUTHOR: Shelimova, L. Ye. (Moscow); Abrikosov, N. Kh. (Moscow); Bessonov, V. I. (Moscow)

TITLE: The pseudo-binary systems GeTe-SiTe and GeTe-PbTe

SOURCE: AN SSSR. Izv. Metallurgiya i Gornoye delo, no. 1, 1964, 180-183

TOPIC TAGS: germanium telluride, silicon telluride, lead telluride, telluride phase study, telluride phase diagram, pseudo-binary system

ABSTRACT: The authors studied the phase diagrams of the systems GeTe-SiTe and GeTe-PbTe (see Figs. 1 & 2 in the Enclosure), as well as solid solutions based on these compounds. Test specimens spaced at 10 mol % were prepared from GeTe, SiTe, and PbTe. The results of microstructure studies were confirmed by thermal analysis and showed that GeTe is the initially crystallizing phase in alloys with up to 30 mol % SiTe. Alloys with 30 mol % SiTe are closest to eutectic character (m.p. 685C), while SiTe crystallizes first in trans-eutectic alloys. The solubility of SiTe in GeTe does not vary significantly with temperature, and the GeTe-based solid solution range is not large. The eutectic state for the system GeTe-PbTe occurs at 20 mol.% PbTe, and the melting point is given as 695C. PbTe crystallizes first when its content is increased. The PbTe-based solid solution

Card 1/1

ACCESSION NR: AP4019819

range is wide, and the second phase was first noted at 60 mol % PbTe. The substantial solubility of GeTe in PbTe was confirmed by X-ray analysis (see Fig. 3 in the Enclosure). Orig. art. has: 5 graphs and 1 table.

ASSOCIATION: none

SUBMITTED: 06Jun63

DATE ACQ: 31Mar64

ENCL: 02

SUB CODE: ML

NO REF SOV: 001

OTHER: 005

Card

2/1

SHELIMOVA, L.Ye. (Moskva); ABRIKOSOV, N.Kh. (Moskva); BESSONOV, V.I.
(Moskva)

Pseudobinary systems GeTe - SiTe and GeTe - PbTe. Izv. AN SSSR.
Met. i gor. delo no.1:180-183 Ja-F '64. (MIRA 17:4)

VINOGRADOV, Yu.N., inzh.; BESSONOV, V.P., inzh.

New engineering principles in the manufacture of traction wheel
pairs. Elek. i tepl. tiaga no.1:28-29 Ja '61. (MIRA 14:3)
(Car wheels)

BESSONOV, V.S., dotsent

One method of preventing excessive accumulations of snow
on the roofs of industrial buildings. Prom. stroi.
40 no.9:20-24 '62. (MIRA 15:11)

(Snow)

MINEYEV, B.K., otv. za vypusk; BESSONOV, V.Ye., red.; GANCHUKOV, Ye.V., red.; FEDOROV, O.V., red.; ~~KARAS~~, V.D., tekhn. red.

[The First Academic and Technical Conference on Improving Productivity and Wages in Enterprises and Construction Projects of the Irkutsk Economic Council; materials of the plenary meeting] Materialy Pervoi nauchno-tekhnicheskoi konferentsii po povysheniiu proizvoditel'nosti i uluchsheniiu organizatsii truda i zarabotnoi platy na predpriyatiakh Irkutskogo sovmarkhoza; plenarnoe zasedanie). Irkutsk, TSentr. biuro tekhn. informatsii, 1960. 102 p. (MIRA 15:4)

1. Nauchno-tekhnicheskaya konferentsiya po povysheniyu proizvoditel'nosti i uluchsheniyu organizatsii truda i zarabotnoy platy na predpriyatiyakh i stroykakh Irkutskogo sovmarkhoza, lst. (Irkutsk Province--Labor productivity--Congresses)
(Irkutsk Province--Wages--Congresses)

MURAV'YEV, Vasilii Petrovich; DMITRIYEV, Gennadiy Andreyevich;
FILATOV, Mikhail Nikolayevich; SAFOKHIN, Mikhail Samsonovich;
GOL'DBERG, Leonid Abramovich; KRUT'KO, Mariya Vladimirovna;
NECHAYEV, Vadim Ivanovich; KOLCHANOV, Vitaliy Dmitriyevich;
BESSONOV, Yevgeniy Aleksandrovich; OBLOMSKIY, Ivan Yefimovich;
KORABLEV, A.A., otv. red.; ABRAMOV, V.I., red. izd-va;
PROZOROVSKAYA, V.L., tekhn. red.

[Automation in the coal mining industry] Avtomatizatsiia v
ugol'noi promyshlennosti. [B] V.P.Murav'ev i dr. Moskva,
Gosgortekhnizdat, 1962. 258 p. (MIRA 15:10)
(Coal mines and mining) (Automation)

BESSONOV, Ye.A.; POPOV, P.I.

Automatic system for measuring liquid levels. Priborostroenie no.7:1-3
Jl '62. (MIRA 15:7)
(Liquid level indicators)

BESSONOV, Ye.A., inzh.

Measuring the conductivity of the insulation of isolated phases
in low-voltage mine systems. Izv. vys. ucheb. zav.; gor. zhur.
7 no.11:130-134 '64. (MIRA 18:3)

1. Kemerovskiy gornyy institut. Rekomendovana kafedroy avtomatiza-
tsii proizvodstvennykh protsessov.

BESSONOV, Ye.A., aspirant

Use of a three-rectifier circuit for measuring and checking the insulation of networks with isolated neutral. Sbor. nauch. trud. Kem. gor. inst. no.5:175-192 '64.

(MIRA 18:3)

1. Gorno-elektromekhanicheskiy fakul'tet Kemerovskogo gornogo instituta.

ADO, Ye.M.; BESSONOV, Ye.G.; CHERENKOV, P.A.

Experiments on electron accumulation in a synchrotron. Atom. energ.
18 no.2:104-107 F '65. (MIRA 18:3)

L 46158-65 EWT(m)/EPA(w)-2/EWA(m)-2 Pt-7/Pab-10 IJP(c) GS

ACCESSION NR: AT5007923

S/0000/64/000/000/0355/0357

AUTHOR: Ado, Yu. M.; Belovintsev, K. A.; Belyak, A. Ya.; Bessonov, Ye. G.;
Dem'yanovskiy, O. B.; Skorik, V. A.; Cherenkov, P. A.; Shirchenko, V. S.

TITLE: Storage of particles in a synchrotron 17

SOURCE: International Conference on High Energy Accelerators. Dubna, 1963. Trudy.
Moscow, Atomizdat, 1964, 355-357

TOPIC TAGS: high energy accelerator, charged particle beam, particle physics,
 synchrotron

ABSTRACT: Synchrotron-type accelerators of several 100 Mev and higher can be employed for particle storage [Yu. M. Ado, "Atomnaya Energiya, 12, 54 (1962)]. In the case of simultaneous storage of electrons and positrons in an accelerator, one can obtain colliding electron-positron beams. In order for a synchrotron to operate in the storage state, the constant component of the driving magnetic field must be larger than the amplitude of the variable component. In particular, if the variable component is a sinusoidal function of time, the driving magnetic field H must have a specified shape. In this case, the accelerating hf potential is step-shaped.

Card 1/4

L 46158-65

ACCESSION NR: AT5007923

i.e. remains switched on continuously in contrast to the synchrotron's operation in the usual state. The injection of particles is effected at moments of time $t_1, t_2, t_3, \dots$, which correspond to intersections of the ascending curve H -versus- t with the constant ordinate H_1 . The particles captured in the synchrotron state of the storage device, which are accelerated during the rising portion of the magnetic field H and slowed down when the magnetic field is decreasing, remain in the accelerator chamber for a period that is determined mainly by the scattering processes and by the bremsstrahlung on the atoms of the residual gas. During each period of the driving magnetic field H close to maximum H there exists considerable radiation damping of the amplitudes of betatron and synchrotron oscillations. As a result, the phase volume occupied by the particles decreases. This permits the onset of amplitude modulation of the specified hf-potential without loss of the particles captured earlier. In this case, the injection of particles will proceed into the phase space between the separatrices which are defined by the amplitudes of hf-potential U (maximum step value) and $U - \Delta U$ (modulation decrement due to H being less than H_1 for the brief periods just before $t_1, t_2, t_3, \dots$). The admissible depth of modulation ΔH is larger the larger the magnitude of radiation damping of the oscillations. The effectiveness of the injection into the synchrotron state of storage during onset of amplitude modulation of the hf-potential is ten times the effectiveness of injection directly into the steady-state separatrix. In the case

Card 2/4

L 46158-65

ACCESSION NR: AT5007923

of particle storage in a synchrotron, injection is effected into the variable magnetic field during the low energy of the injected particles which is typical for the given accelerator. Consequently the problem of particle injection is essentially simplified in comparison with injection into storage rings. Moreover, the small injection energy simplifies the problem of obtaining positrons. These properties permit attainment of a comparatively high rate of storage and thus a lowering of the requirements made on the degree of vacuum. To verify the possibility in principle of realizing the method of particle storage in a synchrotron, experiments were carried out on a 280-Mev synchrotron under specific conditions of particle energy (170 Mev for maximum H and 7 Mev for minimum H), amplitude U , of hf-potential (1.8 kv), modulation depth ΔU (0.36 kv), rate of growth of driving magnetic field at moment of injection ($1.5 \cdot 10^5$ oersteds/sec), pressure of residual gas in vacuum chamber ($5 \cdot 10^{-6}$ mm/Hg). The source of electrons is an 8-Mev microtron [K. A. Belovintsev, A. Ya. Belyak, A. M. Gromov, Ye. M. Moroz, P. A. Cherenkov, "A, omnaya Energiya, 14, 359 (1963)]. Finally as shown by tests conducted on electron storage in a synchrotron, it is possible to carry out simultaneous storage of both electrons and positrons in quantities sufficient for setting up experiments on colliding beams if the pressure in the vacuum chamber is lowered to 10^{-8} mm/Hg and the conditions for particle capture are suitably improved. Orig. art. has 4 figures.

Cord 3/4

L 46158-65

ACCESSION NR: AT5007923

ASSOCIATION: Fizicheskiy institut imeni P. N. Lebedeva AN SSSR (Physics Institute
AN SSSR)

SUBMITTED: 26May64

ENCL: 00

SUB CODE: NP

NO REF SOV: 002

OTHER: 000

Card 4/4

L 34474-65 ENT(m)/EPA(w)-2/EWA(m)-2 Pub-10/Pt-10 IJP(c) DM

ACCESSION NR: AP5005798

S/0089/65/018/002/0104/0107

AUTHOR: Ado, Yu. M.; Bessonov, Ye. G.; Cherenkov, P. A.

TITLE: Experiments on the accumulation of electrons in a synchrotron 44

SOURCE: Atomnaya energiya, v. 18, no. 2, 1965, 104-107 6

TOPIC TACS: synchrotron, storage ring, electron storage, electron lifetime, electron scattering, particle accelerator

ABSTRACT: This is a continuation of earlier experimental work on this subject by the author (Trudy Mezhdunarodnoy konferentsii po uskoritelyam [Transactions of International Conference on Accelerators], N. Atomizdat, 1964, p. 355; Atomnaya Energiya v. 12, 54, 1962). In the present article the authors report an experimentally obtained relation between the lifetime of electrons in a synchrotron storage ring and the pressure of the residual gas, the accelerating voltage, and the particle energy. The work was done on the 280-MeV FIAN (Physics Institute, Academy of Sciences) synchrotron. The experimental procedure and the apparatus were described in the earlier paper. The number of particles in the orbit was determined from the intensity of the synchrotron radiation and recorded with a loop oscillo-

Card 1/2

L 34474-65

ACCESSION NR: AP5005798

scope. Plots were obtained of the particle lifetime against the amplitude of the high-frequency accelerating field, the degree of vacuum, the particle energy, and the depth of amplitude modulation of the high-frequency accelerating voltage. Factors contributing to a decrease in the lifetime and to a loss of particles are evaluated. The lifetime increases with increasing accelerating voltage and with particle energy, and decreases with depth of modulation. An analysis of the data shows that at low density of the accumulated particles, the lifetime of the particle is governed essentially by single scattering of electrons by atoms of the residual gas. Orig. art. has: 5 figures and 9 formulas. [02]

ASSOCIATION: none

SUBMITTED: 24Feb64

ENCL: 00

SUB CODE: HP

NO REF SOV: 005

OTHER: 000

ATD PRESS: 3213

Card 2/2

BESSONOV, Yu.I.

Existence of mixed derivatives of fractional order in L_p .
Esp. mat. nauk 19 no.4:163-170 1964.

(MIRA 17:10)

BISSONOV, Y. I.

Experience in operating mechanical mining equipment at the
"Alushevskaya 3-4" mine. UssR 10.11.1961-62. By 1961.

(MIRA 1966)

1. Gilevyy Inzh. shakhty "Alushevskaya 3-4" Inzh. P. G. Gilevyy.

BESS [^]NCV, YU.

"Through the Inland of Asia," Moscow 1947

YASOV, V.G.; USENKO, A.P.; BESSONOV, Yu.D.; SIRIK, V.F.

Influence of certain parameters on the characteristics of direct-
action jet bit. Izv. vys. ucheb. zav.; neft' i gaz 6 no.10:19-23
'63. (MIRA 17:3)

1. Dnepropetrovskiy gornyy institut.

EPSHTEYN, Ye.F.; YASOV, V.G.; SIRIK, V.F.; BESSONOV, Yu.D.

Methods for the selection of a free-running hydraulic hammer
of direct action. Izv.vys.ucheb.zav.; geol. i razv. 8
no.10:144-147 O '65. (MIRA 19:1)

1. Dnepropetrovskiy gornyy institut.

S/020/62/147/003/001/027
B112/B186

AUTHOR: Bessonov, Yu. L.

TITLE: Approximation of periodical functions of the $W_{p, \lambda}^{(r_1, r_2)}$ classes by Fourier sums

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 147, no. 3, 1962, 519 - 522

TEXT: The following two theorems are derived: (1) For the expressions

$$e_{m, n}(W_{\infty, \theta}^{(r_1, r_2)}) = \sup_{f \in W_{\infty, \theta}^{(r_1, r_2)}} \|f - s_{m, n}\|_{\infty},$$

$$e_{m, n}(W_{1, \theta}^{(r_1, r_2)}) = \sup_{f \in W_{1, \theta}^{(r_1, r_2)}} \|f - s_{m, n}\|_1$$

the asymptotic formula

$$e_{m, n} = e_{m, n}(W_{\infty, \theta}^{(r_1, r_2)}) = e_{m, n}(W_{1, \theta}^{(r_1, r_2)}) = \frac{16E + 8(\lambda^2 - 1)F}{\pi^2 |m^{r_1} + e^{i\alpha} n^{r_2}|} \ln m \ln n +$$

$$+ O\left\{\frac{\ln m [16E + 8(\lambda^2 - 1)F]}{m^{r_1}} + \frac{\ln n [16E + 8(\lambda^2 - 1)F]}{n^{r_2}}\right\} + O\left(\frac{\ln m}{m^{r_1}} + \frac{\ln n}{n^{r_2}}\right).$$

Card 1/3

Approximation of periodical...

S/020/62/147/003/001/027
B112/B186

is valid. Here,

$$\alpha = \theta + \frac{r_2 - r_1}{2} \pi,$$

$$E = E\left(\lambda, \frac{\pi}{2}\right) = \int_0^{\pi/2} \sqrt{1 - \lambda^2 \cos^2 t} dt \quad \text{npu } 0 < \lambda < 1,$$

$$F = F\left(\lambda, \frac{\pi}{2}\right) = \int_0^{\pi/2} \frac{dt}{\sqrt{1 - \lambda^2 \cos^2 t}};$$

$$e_{m,n} = \frac{16E + 8(\lambda_1^2 - 1)F}{\pi^4 |m^{r_1} + e^{i\beta} n^{r_2}|} \ln m \ln n + O\left\{ \frac{\ln m [16E + 8(\lambda_1^2 - 1)F]}{m^{r_1}} + \frac{\ln n [16E + 8(\lambda_1^2 - 1)F]}{n^{r_2}} \right\} + O\left(\frac{\ln m}{m^{r_1}} + \frac{\ln n}{n^{r_2}}\right),$$

$$\beta = \theta + \frac{r_1 + r_2}{2} \pi \quad \text{npu } 0 < \lambda_1 < 1;$$

$$e_{m,n} = \frac{16 \ln m \ln n}{\pi^4 |m^{r_1} + e^{i\beta} n^{r_2}|} + O\left(\frac{\ln m}{m^{r_1}} + \frac{\ln n}{n^{r_2}}\right) \quad \text{npu } \lambda = \lambda_1 = 1.$$

Card 2/3

Approximation of periodical...

S/020/62/147/003/001/027
B112/B186

(2) If

$$\frac{\partial^{k_1+\dots+k_m} f}{\partial x_1^{k_1} \dots \partial x_m^{k_m}} \in L_p, \quad \frac{\partial^{k_{m+1}+\dots+k_n} f}{\partial x_{m+1}^{k_{m+1}} \dots \partial x_n^{k_n}} \in L_p$$

and

$$\frac{\partial^{\theta_1 k_1+\dots+\theta_m k_m} f}{\partial x_1^{\theta_1 k_1} \dots \partial x_m^{\theta_m k_m}} \in L_p, \quad \frac{\partial^{\theta_{m+1} k_{m+1}+\dots+\theta_n k_n} f}{\partial x_{m+1}^{\theta_{m+1} k_{m+1}} \dots \partial x_n^{\theta_n k_n}} \in L_p,$$

where $\theta_i = 0, 1$ and $i = 1, 2, \dots, n$, then

$$\frac{\partial^{\lambda(k_1+\dots+k_m)+\mu(k_{m+1}+\dots+k_n)} f}{\partial x_1^{\lambda k_1} \dots \partial x_m^{\lambda k_m} \partial x_{m+1}^{\mu k_{m+1}} \dots \partial x_n^{\mu k_n}} \in L_p.$$

where $\lambda, \mu \geq 0$, $\lambda + \mu \leq 1$.

ASSOCIATION: Moskovskiy aviatsionnyy institut im. Sergo Ordzhonikidze
(Moscow Aviation Institute imeni Sergo Ordzhonikidze)
PRESENTED: June 8, 1962, by A. I. Mal'tsev, Academician
SUBMITTED: May 31, 1962
Card 3/3

BESSONOV, YU. N.

BESSONOV, IU.N.

Po unutrennei Azii (Ch.Ch. Valikhanov i G.N. Potanin) (Pod red, V.V. Pokshishevskogo i N.G. Fradkina) Moskva, Geografiz, 1947. 76 p.
(Russkie puteshestvenniki)

DLC: DK851.B4

CU ICU NN WaU

SO: L.C, Soviet Geography, Part I, 1951, Uncl.

BESSONOVA, A., inzh.

Designing coal-preparation plants in the Kuznetsk Basin. Tekh.-
ekon.biul. no.1/2:30-32 Ja-F '59. (MIRA 12:4)
(Kuznetsk Basin---Coal preparation)

БЕССОНОВА, А.
BESSONOVA, A.

Results of third coordinating conference on the establishment of
light metal production metallurgy for local ores of Eastern Siberia.
Izv.vost.fil. AN SSSR no.2:124 197. (MIRA 10:9)
(Siberia, Eastern--Light metals--Metallurgy)

BESSONOVA, A. P.

SOV/137-57-1-1661

Translation from: Referativnyy zhurnal. Metallurgiya, 1957, Nr 1, p 222 (USSR)

AUTHORS: Miller, S. V., Gorlanova, N. M., Glushkov, L. A., Bessonova, A. P.,
Gotlib, Ye. V., Saknyn', A. V., Cherepanova, K. A.

TITLE: Results and Goals of the Scientific Work on Labor Hygiene in Electrolytic Shops of Aluminum Plants (Itogi i zadachi nauchnoy raboty v oblasti gigiyeny truda v elektroliznykh tsekhakh alyuminiyevykh zavodov)

PERIODICAL: V sb.: Vopr. gigiyeny truda, professional'noy patologii i toksikologii v prom-sti Sverdl. obl., Sverdlovsk, 1955, pp 121-127

ABSTRACT: The unsatisfactory sanitary working conditions in electrolytic shops of Al plants are characterized by the presence in the atmosphere of Fe compounds, the amounts of which near the baths (B) and in working passages exceed the permissible concentrations by 200-600%. The dust content in the atmosphere during the preparation of B attains 30-60 mg/m³. The radiant-heat flux during the period of B preparation amounts to 2-4 cal/cm² per min, but it may attain 9-10 cal/cm² for short periods of time. The jumps and drops in air temperatures close to B's and in the passages is

Card 1/2

SOV/137-57-1-1661

Results and Goals of the Scientific Work on Labor Hygiene (cont.)

10-20°C higher than those termed permissible by sanitation standards. During the cold-weather period, when the air is changed 10-13 times per hour, the temperature falls below 0°C. All these conditions bring about a chronic Fe poisoning ["F." in the Russian text. Transl. note], koniotic changes in the lungs, and an increase of the over all incidence of sickness. For the improvement of sanitary conditions it is recommended that the leakage of heat and harmful gases into the air from the electrolytic B be minimized by means of decreasing the leakages in the exhaust-ventilation hoods, reducing the time required for B preparation through the mechanization of the process of continual intake of alumina into the B underneath the crust instead of batch loading. Measures were outlined for sanitary protection of the atmosphere on the lands covered by a plant and neighboring residential areas from harmful discharge of dust, tarry substances, etc.

B. T.

Card 2/2

USCOMM-DC-61191

BESSONOVA, A. P.

AID P - 2164

Subject : USSR/Medicine

Card 1/1 Pub. 37 - 6/22

Author : Bessonova, A. P., Kand. of Med. Sci.

Title : Fluorine compounds in the air of electrolytic shops of aluminum plants

Periodical : Gig. i san., 4, 23-28, Ap 1955

Abstract : Discusses working conditions, ventilation and air analysis in electrolytic shops of plants producing aluminum. Describes medical tests performed on workers and recommends technical measures for improving the sanitary conditions in accordance with the Instructions of the Sverdlovsk Institute of Industrial Hygiene and Occupational Diseases, as approved by the All-Union State Sanitary Inspection in 1953. Table, diags., 7 refs., 5 Russian (1937-1952).

Institution : Chair of General Hygiene, Sverdlovsk Medical Institute and Sverdlovsk Institute of Industrial Hygiene and Occupational Diseases.

Submitted : Jl 19, 1954

BESSONOVA, A. P.; GLUSHKOV, L. A.; GORLANOVA, N. M.; GOTLIN, YE. V.; SAKYN', A. V.;
STONIN-BAKHUREV, I. M. ; FILATOVA, A. S.; SURIS, V. G.; GRUKHS, G. D.; MILLER, S. V.

"Sanitary labor conditions in the electrolytic shops of aluminum plants and
the essential health-protection measures."

report submitted at the 13th All-Union Congress of Hygienists, Epidemiologists
and Infectionists, 1959.

BESSONOVA, A.S.

137-58-5-9210

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 5, p 65 (USSR)

AUTHOR: Bessonova, A.

TITLE: Summary of the Third Coordination Conference on the Creation of an East Siberian Light Metals Industry for the Utilization of Local Ore Resources (K itogam 3-go koordinatsionnogo soveshchaniya po sozdaniyu metallurgii legkikh metallov Vostochnoy Sibiri na baze mestnykh rud)

PERIODICAL: Izv. vost. fil. AN SSSR, 1957, Nr 2, p 124

ABSTRACT: In the last two years, as was pointed out at the conference, a large amount of work has been accomplished by geological-exploration, scientific-research, and planning organizations toward the creation of light-metal metallurgy in Eastern Siberia. Methods of obtaining Ca from limestone of Ust'-Anginskoye deposits were investigated, also the properties of East-Siberian Mg ores. A detailed plan of research coordination on the problem was developed for the period of 1957-1958.

G.S.

Card 1/1

1. Metallurgy--USSR 2. Ores--Applications 3. Industrial plants--USSR

БЕССОНОВА, А.С.

137-58-5-9278

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 5, p 71 (USSR)

AUTHORS: Mazel', V.A., Oksyuzov, V.A., Bessonova, A.S.

TITLE: A Caustic Hydrochloric-acid Method of Extracting Aluminum Oxide from Kaolins (Sol'yanokislотно-shchelochный способ получения окиси алюминия из каолинов)

PERIODICAL: Tr. Vses. alyumin. -magn. in-ta, 1957, Nr 39, pp 242-250

ABSTRACT: After subjecting kaolinite-bearing clay to roasting in order to decompose the aluminosilicate contained in it, it is leached with a hot solution of HCl. The $AlCl_3$ thus obtained is segregated from the silicon residue and is then evaporated under vacuum in a closed process resulting in the separation of $AlCl_3 \cdot 6H_2O$; the latter is subjected to hydrolytic dissociation by means of roasting. "Raw" Al_2O_3 and HCl are the products of this dissociation. Raw Al_2O_3 is converted to Al_2O_3 by means of a simplified Bayer process. The following basic operations were investigated: roasting of kaoline; leaching of the roasted kaoline with HCl; roasting of $AlCl_3 \cdot 6H_2O$, and leaching of "raw" Al_2O_3 with solutions of NaOH. A standard method for leaching of roasted kaoline was developed. The authors comment on the high technological efficiency of the method described.

N. P.

1. Aluminum oxides--Production 2. Clays--Processing 3. Kaolin

Card 1/1

BESSONOVA, Avgusta Spiridonovna; BENESLAVSKIY, S.I., red.; PETRENKO, N.P., red.; SOROKINA, T.I., tekhn.red.

[Aluminum raw materials of the Irkutsk Province and possible ways to use them] *Aluminievoye syr'e Irkutskoi oblasti i vozmozhnye puti ego ispol'zovaniya. Pod red. S.I.Beneslavskogo. Irkutsk, Irkutskoye knizhnoye izd-vo, 1958. 41 p. (MIRA 13:8)*
(Irkutsk Province--Aluminum silicates)

343)	PLATE I SHOW HYDROTHERMAL	507/2154
Abstracts and Notes, Tectonics-Stability Atlas		
On the geology of the Eastern Siberian Branch Transactions is of interest to structural, exploration and mining geologists, mineralogists, and metallurgists in the light metal industries.		
Abstracts: This collection of articles is a compilation of the reports presented at the third international conference on "The Creation of a Light Metal Industry in Eastern Siberia Based on Local Ores" organized by the Laboratory of Metallurgy of the Eastern Siberian Branch of the AN SSSR in October 1954. It was for the purpose of presenting the correlation between the activities of the light metal industry and the first developing light metals industry in Eastern Siberia. The reports indicated that large aluminum and titanium-magnesium deposits, including deposits in the Transbaykal, Kory and the Dnieper basins, energy, industrial facilities also report on the following subjects: general questions in the development of the light metal industry in Eastern Siberia, titanium ores, zirconium ores, thorium, tungsten ores, etc.		
Abstracts, 21. Description of Impulsive Dynamics by Nitrogen Oxides		178
Polov, A.V. Technological Processing Plans for Uranium and Plutonium		125
Part III. MINING AND REFINING UTILIZATION		
Shchegoleva, Ye. P. New Data on the Bacteriophage Deposits		205
Abstracts, P.V. Bacteriophage in the Distribution of Bacteria Ores at the Bacteriophage Deposits		207
Shchegoleva, Ye. P., A.G. Bacteriophage, and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		205
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
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Shchegoleva, Ye. P., and A.V. Bacteriophage. Combined Treatment of Bacteria Ores by the Bacteriophage Method by Bacteriophage Deposits		207
Abstracts, P.V. and L.P. H. Bacteriophage-Combined (Bacteriophage) Method of Processing Bacteria Ores		202
Shchegoleva, Ye.		

KHAZANOV, Ye.I.; BESSONOVA, A.S.; KHLIUPINA, A.F.

Physicochemical properties and technological assaying of Bokson deposit
bauxite-like formations. Trudy Vost.-Sib.fil. AN SSSR no.12:51-64
' 58. (MIRA 11:11)

1. Vostochno-Sibirskiy filial AN SSSR.

(Bokson Valley--Ore deposits--Testing)

SOV/137-59-3-5507

Translation from: Referativnyy zhurnal. Metallurgiya, 1959, Nr 3, p 81 (USSR)

AUTHORS: Khazanov, Ye. I., Bessonova, A. S., Mal'tsev, V. S.

TITLE: Reduction Smelting of Bauxites of the Tatarskiy Deposit
(Vosstanovitel'naya plavka boksitov Tatarskogo mestorozhdeniya)

PERIODICAL: Tr. Vost.-Sib. fil. AN SSSR, Nr 12, pp 137-148, 1958

ABSTRACT: Technological flowsheet of the complex treatment of Tatarskiy bauxites was verified by a process reproducing the industrial procedure. Experiments showed that extraction of Al, Fe, and Ti from the bauxites is feasible. As a result of reduction smelting the constituents of the bauxite are concentrated in the pig iron (all the Fe and a part of the silica) and in the slag (the Al_2O_3 and the unreduced portion of the silica). The TiO_2 in the slag attains 90% of the initial content. In the leaching out of the slags with soda-caustic solutions the extraction of Al_2O_3 is as high as 97%. The residues from the leaching, the mud, is easily separated from the solution and can be utilized as building material. By means of hydrometallurgical treatment TiO_2 is concentrated in the mud. The cast iron resulting from the smelting contains small amounts of impurities. V. S.

Card 1/1

KHAZANOV, Ye.I.; KHLIUPINA, A.F.; BESSONOVA, A.S.; SHISHLYANNIKOVA, E.M.;
MEN'SHIKOV, P.S.

Sintering Ushur nepheline syenites with limestones in the presence
of a reducing agent. Trudy Vost.-Sib. fil. AN SSSR no.13:134-143
'58. (MIRA 12:12)

1. Vostochno-Sibirskiy filial AN SSSR.
(Ushur region (Kuznetsk Ala-Tau)—Nepheline syenite)
(Limestone) (Sintering)

KHAZANOV, Ye.I.; BESSONOVA, A.S.; KHLIUPINA, A.F.

Complex processing of high-iron silicon bauxites by sintering two-component burdens in the presence of a reducing agent. Trudy Vost.-Sib. fil. AN SSSR no.13:226-231 '58. (MIRA 12:12)

1. Vostochno-Sibirskiy filial AN SSSR.
(Bauxite) (Sintering)

BESSONOVA, A. S., Cand. Agri. Sci. (diss) "Effect of Methods and Depth of Basic Soil Cultivation on Micro-flora under Conditions of Central Zone of Moldavia," Kishinev, 1961, 18 pp (Leningrad Agri. Inst.) 150 copies (KL Supp 12-61, 279).

BESSEROVA, E. N.

PLANE I BOOK EXPLANATIONS 800/1490

Abstracts book 800. Institute Field 800.1
Voprosy teoreticheskoy seismologii i fiziki zemly (Problems in the Theory of Seismology and Physics of the Earth's Interior) Moscow, 1960. 172 p.
(Series: Izv. Tsyb, no. 11 (1960)) First ed. issued. 1,700 copies printed.
Sponsoring Agency: Abstracts book 800. Institute Field 800.1 Item O. 10.
Book 800.1

1967. Ed.: V. A. Nagibinsky, Doctor of Technical Sciences; Ed. of Publishing House:
V. A. Kalinin; Tech. Ed.: S. O. Zhukovskiy.

INDEX: This collection of articles is intended for seismologists, geophysicists, and astrophysicists.

CONTENTS: This issue of the Transactions of the Institute of Physics of the Earth Item O. 10. contains articles on theoretical problems in seismology and its recent investigations in the field of earthquake mechanics. Four out of fourteen articles in the collection have been abstracted. References accompany individual articles.

Kozlov, V. I., L. G. Kozlov, and V. P. Kozlov. Spherical waves in a
homogeneous liquid 135

Kalinin, V. A. Waves in a homogeneous liquid medium 135

Kozlov, V. I. Problem of changes in the field of stresses due to an
earthquake 135

The author discusses the theoretical problem of a finite field of stresses in the field of an earthquake. This is of interest for studying certain problems in seismology, in particular, the relationship between seismic activity and the deformation of the Earth's crust. Following an extended mathematical treatment of a model of a spherical elastic body, the author presents the results of calculations for a number of diagrams, and after presenting the results of calculations, he concludes that as a result of an earthquake the theoretical stresses decrease, and in general the order of elastic energy decreases in the approximately spherical area of the Earth's crust. This places it outside the vicinity of the focal area, the concentration of stresses with greater intensity of the hypocenter. From the direction of displacement, the zone of concentrated stresses is displaced from the focal area by a refraction zone which is greater, i.e., the observed oblateness of the focal area. The concentration of stresses is maximum at the point perpendicular to this direction at the edge of the plane of displacement. No personalities are mentioned.

Manuscript, E. N., Pro Seismology of Localized and Global
- This book is an Institute Voprosy Seismologii
AVAILABLE: Library of Congress

155-172

99865 (also 1327)

29870

S/169/61/000/009/012/056
D228/D304

AUTHOR: Bessonova, E. N.

TITLE: The propagation of longitudinal and transverse flat waves in the limitless viscous-elastic Maxwell medium

PERIODICAL: Referativnyy zhurnal. Geofizika, no. 9, 1961, 15, abstract 9A127 (Tr. In-ta fiz. Zemli AN SSSR, no. 11, 1960, 155-172)

TEXT: The behavior is studied of stationary and unstationary one-dimensional waves diffusing in the Maxwell medium. The variation in the form, velocity and intensity of the waves in the process of propagation is established by means of numerical calculations. During the propagation of transverse waves the original disturbance fades exponentially, and a long-period vibration which fades little and has a small intensity is formed in its place. In the case of longitudinal waves, the original disturbance at the wave front also fades exponentially and is gradually transformed into a smoother perturbation which proceeds at a velocity

Card 1/2

The propagation...

29870

S/169/61/000/009/012/056
D228/D304

$$\delta = \sqrt{(3\lambda + 2\mu) / 3 (\lambda + 2\mu)}$$

times smaller than the original. An estimate is made of the magnitude
of the time of relaxation in the upper part of the earth's core.
[Abstracter's note: Complete translation.]

4

Card 2/2

SIDYAKIN, G.P.; BESSONOVA, I.A.; YUNUSOV, S.Yu.

Alkaloids of seeds of *Haplophyllum perforatum*: Perforin. Dokl.
AN Uz.SSR no.10:33-35 '59 (MIRA 13:3)

1. Institut khimii rastitel'nykh veshchestv AN UzSSR. 2. Chlen-
korrespondent AN SSSR (for Yunusov).
(Alkaloids)

SIDYAKIN, G. P.; BESSONOVA, I. A.; PASTUKHOVA, V. I.; YUNUSOV, S. Yu.

Alkaloids Haplophyllum. Part 3: Structure of dubinidine and
dubamine. Zhur. ob. khim. 32 no.12:4091-4096 D '62.
(MIRA 16:1)

1. Institut khimii rastitel'nykh veshchestv AN Uzbekskoy SSR.

(Alkaloids) (Dubinidine)

BESSONOVA, I.A.; SIDYAKIN, G.P.; YUNUSOV, S.Yu.

Alkaloids of Haplophyllum dubium. Structure of dubinine. Zhur.ob.
khim. 34 no.1:347-351 Ja '64. (MIRA 17:3)

1. Institut khimii rastitel'nykh veshchestv AN UzSSR.

BESSONOVA, I.N.; POLYANSKAYA, T.M.

Technological and economic indices in the distribution and utilization of fuel in rural districts. Obshch.energ. no.4:45-53 '61.
(MIRA 14:8)

(Fuel)

BESSONOVA, I.N.

Problem concerning the utilization of experience in the development
of nonindustrial electrification in the United States. Obshch.
energ. no. 4: 54-61 '61. (MIRA 14:8)
(United States--Electrification)

BESSONOVA, I.N.; SINYAK, Yu.V.

Correlation between the abundance of electrical equipment and
labor productivity in the U.S.S.R. and the U.S.A. Obshch. energ.
no.6:58-71 '63. (MIRA 16:10)

(United States---Electric power)
(Electric power)

VASHKOV, V.I., doktor med. nauk prof.; SUKHOVA, M.N., doktor
biol. nauk; KERBAYEV, E.B., kand. med. nauk;
SHNAYDER, Ye.V., kand. med. nauk; DREMOVA, V.P., kand.
biol. nauk, retsenzent; VOLKOVA, A.P., kand. biol. nauk,
retsenzent; BRIKMAN, L.I., kand. biol. nauk, retsenzent;
VOLKOV, Yu.P., kand. khim. nauk, retsenzent; BESSONOVA,
I.V., biolog, retsenzent; ZUBOVA, G.M., biolog, retsenzent;
KARON, I.I., red.

[Insecticides and their use in medical practice] Insekti-
tsidy i ikh primeneniye v meditsinskoi praktike. Moskva,
Meditsina, 1965. 523 p. (MIRA 18:12)

SHARIFKANOV, A.Sh.; BESSONOVA, I.V.; ASANBEKOVA, A.

Heterocyclic compounds. Synthetic anesthetics. Synthesis of benzoic esters of 1-n-propyl- and 1-n-butyl-2,5-dimethyl-4-ethyl-4-piperidinols. Zhur. ob.khim. 30 no.9:2909-2911 S '60. (MIRA 13:9)

1. Kazakhskiy gosudarstvennyy universitet.
(Piperidinol) (Anesthetics)

L 19635-65 EWT(m)/EPF(c)/EPR/EWP(j)/T Pc-4/Pr-4/Pe-4 WW/EM

ACCESSION NR: AP5000509

S/0080/64/037/011/2473/2477

AUTHOR: Belonovskaya, G. P.; Chernova, Zh. D.; Bessonova, L. A.

TITLE: Emulsion polymerization of vinyl acetate at low temperatures B

SOURCE: Zhurnal prikladnoy khimii, v. 37, no. 11, 1964, 2473-2477

TOPIC TAGS: emulsion polymerization, vinyl acetate, polyvinylacetate, low temperature polymerization, polymer viscosity

ABSTRACT: The authors developed a new technique for the preparation of polyvinylacetate in a stream of nitrogen, a stable emulsion being formed by combining 6% OP-10 emulsifier (a condensation product of ethylene oxide with alkyl phenols), 0.1% ascorbic acid, and 0.2% isopropylbenzene peroxide with reference to the amount of vinyl acetate, the latter being dissolved in a 50 or 55% water-glycerol mixture in a 3:1 ratio. The emulsion was cooled to -25 or -35°C in a thermostat, after which 15 or 60 mol. % ferrous ammonium sulfate were added with stirring. The polymers, separated by adding warm saturated NaCl solution, show that lower polymerization temperatures increase the viscosity of polyvinyl acetate and of polyvinyl alcohols and reduce their α -glycol and acetate group content. The course of the polymerization under various conditions is shown in Fig. 1 of the Enclosure. X

Card 1/4

L 19635-65

ACCESSION NR: AP5000509

2
"The polarographic determination of the α -glycol bonds was carried out by O. B. Iv in the Fiziko-khimicheskaya laboratoriya (Physicochemical Laboratory) of the IVS." Orig. art. has: 1 table and 2 figures.

ASSOCIATION: none

SUBMITTED: 19Nov62

ENCL: 02

SUB CODE: OC, MT

NO REF SOV: 003

OTHER: 003

Card 2/4

L 19635-65

ACCESSION NR: AP5000509

ENCLOSURE: 01

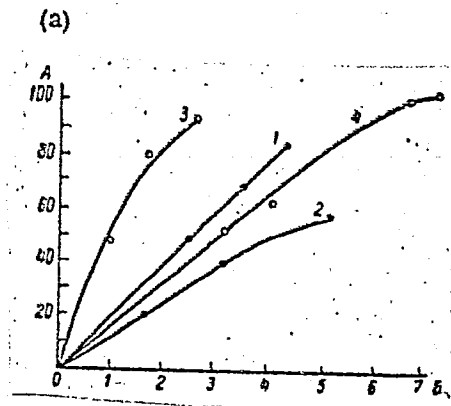


Fig. 1. Emulsion polymerization of vinylacetate at temperatures of (a) 0°C and above, (b) less than 0°C. Ordinate = degree of conversion in %; abscissa = time in hours.

Temperature in °C and concentration of Mohr's salt in mol. %: (a) 1 - 0 and 10, 2 - 0 and 5, 3 - 20 and 0.75, 4 - 50 and 0.25; (b) 1 - -25 and 60, 2 - -25 and 15, 3 - -35 and 30.

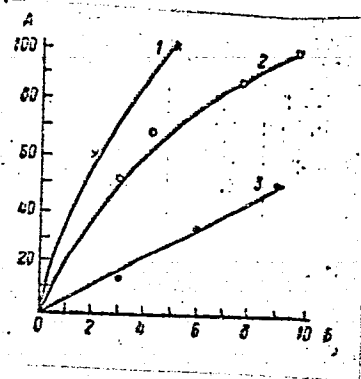
Card 3/4

L 19635-65

ACCESSION NR: AP5000509

0 ENCLOSURE: 02

(b)



Card 4/4

L 39715-65

EPP(c)/EWP(j)/ENT(m)/T

Pc-4/Pr-4

RM

ACCESSION NR: AP5011727

UR/0080/64/037/011/2547/2550

AUTHOR: Belonovskaya, G. P.; Bessonova, L. A.; Chernova, Zh. D.

TITLE: Homogeneous polymerization of vinyl acetate at reduced temperature

SOURCE: Zhurnal prikladnoy khimii, v. 37, no. 11, 1964, 2547-2550

TOPIC TAGS: polymerization, redox reaction, vinyl plastic

ABSTRACT: Oxidation-reduction systems used for the polymerization of various monomers: 1) dimethylaniline, isopropylbenzene hydroperoxide and ferric naphthenate; 2) dimethylaniline and benzoyl peroxide; 3) triethylenetetramine, isopropylbenzene hydroperoxide, and ferric naphthenate; 4) p-toluenesulfonic acid and isopropylbenzene hydroperoxide; 5) p-toluenesulfonic acid and benzoyl peroxide, were investigated in the development of an effective process of homogeneous polymerization of vinyl acetate in a mixture with methane (the so-called lacquer method) at reduced temperature. Only the system with p-toluenesulfonic acid or its derivatives and benzoyl peroxide yielded satisfactory results. A study of the polymerization of vinyl acetate in a mixture with 20% methanol at 30° indicated that the polymerization process can be effectively accomplished using an oxidation-reduction system consisting of

Card 1/2

L 39715-65

ACCESSION NR: AP5011727

alpha-hydroxymethyl-p-tolysulfone and benzoyl peroxide. In this case, 50% conversion is reached in 10-12 hours. The intrinsic viscosity of the polyvinyl acetate obtained under these conditions is 1.2 in ethyl acetate at 20°. The polyvinyl alcohol obtained by saponification of the polyvinyl acetate synthesized according to this method possessed an intrinsic viscosity in water at 25° of approximately 1.5, and contained 0.11% acetate groups and 1.034% alpha-glycol groups. Orig. art. has: 2 graphs, 1 table.

ASSOCIATION: none

SUBMITTED: 19Nov62

ENCL: 00

SUB CODE: CC, CC

NO REF SOV: 002

OTHER: 002

JPRS

Card 2/278

TROSTYANSKAYA, Ye.B.; TEVLINA, A.S.; BESSONOVA, L.V.

Using ion exchangers for a simultaneous extraction of cations and anions from solutions. Plast.massy no.11:15-16 '61.

(Ion exchange resins)

(MIRA 14:10)

BESSONOVA, M.

541 Povysim molochnuyu produktivnost' korov. (opyt rabory doyard.
M. I. Radchenko iz kolkhoza im. Zhdanova, Novozybkovskogo
rayona). Bryansk, "Bryan. rabochiy", 1954. 16s 20sm. (Bryan.
obl. upr. sel'skogo Kholyaystva). 4.000 ekz. Bespl.
(54-55524) p 636.2.083 sr (47.399)

S0: Kaizhmaya Letopis, Vol 1, 1955

Country : USSR
Category: Virology. Viruses of Man and Animals.
Rickettsias.

E

Abs Jour: Ref Zhur-Biol., No 23, 1958, 103583

Author : Bessonova, M.A.; Vasil'yeva, L.D.

Inst : -

Title : Material on "Q" Fever in Luzhskiy Rayon

Orig Pub: Sb. Rikettsiozy. Leningrad, 1958, 192-199.

Abstract: No abstract.

Card : 1/1

7h

BESSONOVA, M.A., VASIL'EVA, L.D.

Data on Q fever in Luga District. Vop.virus. 3 no.5:307-308 S-0 '58

(MIRA 11:10)

1. Otdel osobo opasnykh infektsiy Leningradskoy oblastnoy
sanitarno-epidemiologicheskoy stantsii i Institut imeni Pastera,
Leningrad.

(Q FEVER, epidemiol.
in Russia (Rus))

TOKAREVICH, K.N.; VASIL'YEVA, L.D.; POPOVA, Ye.M.; BESSONOVA, M.A.;
KNIZEL', N.G.

Epidemiological materials on Q fever in Leningrad Province.
Trudy Len.inst.epid.i mikrobiol. 20:1927 '59. (MIRA 16:1)

1. Iz laboratorii osoboopasnykh infektsiy instituta imeni
Pastera i otdela osoboopasnykh infektsiy Leningradskoy oblastnoy
sanitarno-epidemiologicheskoy stantsii.
(LENINGRAD PROVINCE--Q FEVER)

TOKAREVICH, K.N.; VASIL'YEVA, L.D.; AMOSENKOVA, N.I.; DAYTER, A.B.;
POPOVA, Ye.M.; HESSONOVA, M.A.; KLENOV, K.M.

Epidemiological characteristics of a local ~~Q~~-rickettsiosis focus.
Trudy Len.inst.epid.i mikrobiol. 23:136-143 '61. (MIRA 16:3)
(Q FEVER)

VISHNAKOVA, L.A.; ~~BESSONOVA, M.A.~~

Outbreak of ornithosis infection at a meat combine in Vyborg.
Trudy Len.inst.epid.i mikrobiol. 23:273-277 '61. (MIRA 16:3)

1. Iz laboratorii osobo opasnykh infektsiy i rekketsiozov
Leningradskogo instituta epidemiologii i mikrobiologii imeni
Pastera i otdela osobo opasnykh infektsiy Leningradskoy oblastnoy
sanitarno-epidemiologicheskoy stantsii.
(VYBORG—ORNITHOSIS)

OLSUF'YEV, N.G.; YEMEL'YANOVA, O.S.; UGLOVOY, G.P.; SIL'CHENKO, V.S.; KHOROSHEV, I.G.; YEZHOVA, Ye.N.; BESSONOVA, M.A.; VEDENEYEVA, Ye. V.; AREF'YEV, S.S.; SHELANOVA, G.M.; SORINA, A.M.; BORODIN, V.P.; KOROLEVA, A.P.; SUVOROVA, A.Ye.; ONIKHIMOVSKAYA, V.A.; STOLYAROVA, A.D.; BYSTROVA, K.A.; REPINA, R.F.; MYASHNIKOV, Yu.A.; LEVACHEVA, Z.A.; YEGIAZARYAN, K.K.; RAVDONIKAS, O.V.; SARMANEV, A.P.

Optimal periods for testing skin reaction in subjects inoculated against tularemia with a dry live vaccine and vaccinal, reactogenic and immunogenic properties of this preparation. Zhur. mikrobiol. epid. i immun. 32 no.6:92-98 Je '61. (MIRA 15:5)

1. Iz otdela prirodnoochagovykh infektsiy Instituta epidemiologii i mikrobiologii imeni Gamalei AMN SSSR, otdelov Osobo opasnykh infektsiy Voronezhskoy, Leningradskoy, Moskovskoy, Smolenskoy, Stalingradskoy, Tambovskoy, Tul'skoy, oblastnykh sanitarno-epidemiologicheskikh stantsiy i Omskogo instituta epidemiologii, mikrobiologii i gigiyeny.

(TULAREMIA)

(VACCINES)

BESSONOVA, M.A.; PRIVALOV, A.F.

Comparative characteristics of the growth of *Corynebacterium*
diphtheriae on coagulated serum and tellurite-cystine medium;
author's abstract. Zhur. mikrobiol., epid. i immun. 40 no.4:
54 Ap '63. (MIRA 17:5)

1. Iz Krymskoy oblastnoy sanitarno-epidemiologicheskoy stantsii.

YEMEL'YANOVA, O.S.; RAVDONIKAS, O.V.; YEGOROVA, L.S.; PANINA, N.V.;
PILIPENKO, V.G.; RUDNEV, M.M.; SIL'CHENKO, V.S.; BESSONOVA, M.A.;
UL'YANOVA, N.I.; VEDENEYEVA, Ye.V.; BORODIN, V.P.; SAMSONOVA, A.P.;
MYASNIKOV, Yu.A.; LEVACHEVA, Z.A.

Approbation of an improved tularemia diagnosticum. Zhur.
mikroobiol., epid. i immun. 40 no.10:85-92 O '63.

(MIRA 17:6)

1. Iz Instituta epidemiologii i mikrobiologii imeni Gamaley
AMN SSSR, Omskogo instituta prirodnookhagovykh infektsiy,
Protivochumnogo instituta Kavkaza i Zakavkaz'ya, Voronezhskoy,
Leningradskoy, Volgogradskoy, Tul'skoy sanitarno-epidemiologicheskikh
stantsiy.

BESSONOVA, M.M.

Clinical characteristics of serous meningitis caused by Coxsackie viruses. Zdrav. Bel. 7 no. 2:6-9 F '61. (MIRA 14:2)

1. Iz kliniki infektsionnykh bolezney (zaveduyushchiy - prof. M.N. Bessonova) Belorusskogo instituta usovershenstvovaniya vrachey (direktor - dotsent N.Ye. Savchenko). (MENINGITIS) (COXSACKIE VIRUSES)

. BESSONOVA, M. N.

BESSONOVA, M. N. -- "On the Vitamin-C Balance in Children Suffering from Rickets and Their Complex Treatment with Vitamins C and D." Odessa State Medical Institute imeni N. I. Pirogov. Odessa, 1955
(Dissertation for the Degree of Doctor in Medical Sciences.)

So; Knizhaya Letopis' No 3, 1956

BESSONOVA, M.N.; PISARCHIK, K.I.

Changes in the cardiovascular system in acute poliomyelitis. Vop.
okh.mnt. i det. 3 no.2:8-11 Mr-Apr '58. (MIRA 11:3)

1. Iz kafedry detskikh infektsionnykh bolezney (zav.-prof. M.N.
Bessonova) Krymskogo meditsinskogo instituta (dir.-dotsent S.I.
Georgiyevskiy.

(CARDIOVASCULAR SYSTEM) (POLIOMYELITIS)

BESSONOVA, Mariya Nikolayevna, pref.; SARYLOVA, K.P., red.; POGOSKINA,
M.V., tekhn. red.

[Rickets] Rakhit. Moskva, Gos. izd-vo med. lit-ry Medgiz, 1960.
150 p. (MIRA 14:9)

(RICKETS)

~~BESSONOVA, M.N.~~

Changes in the activity of the alkaline phosphatase of the blood in rickets in relation to the gravity of the disease and the state of nutrition. Vop. okh. mat. 1 det. 5 no.6:87 '60. (MIRA 13:12)

1. Iz Krymskogo gosudarstvennogo meditsinskogo instituta.
(PHOSPHATASE) (RICKETS) (NUTRITION)

BESSONOVA, M.N.; RESHETNIKOVA, Z.N.

Vitamin C metabolism in children in the acute stage of paralytic forms of poliomyelitis. Vop. okh. mat. i det. 5 no.6:88 N-D '60. (MIRA 13:12)

1. Iz kafedra detskikh infektsionnykh bolezney Krymskogo meditsinskogo instituta imeni I.V.Stalina.
(ASCORBIC ACID) (POLIOMYELITIS)

BESSONOVA, M.N., prof.

Clinical aspects and treatment of colienteritis in young children.
Zdrav. Bel. 7 no.5:56-58 My '61. (MIRA 14:6)

1. Iz kafedry infektsionnykh bolezney Belorusskogo instituta
usovershenstvovaniya vrazhey (direktor - dotsent N.Ye. Savchenko).
(~~INTESTINES~~ DISEASES)

BESSONOVA, M.N.; KAPLAN, Z.A.

Errors in the diagnosis of diphtheria. Zdrav. Bel. 7 no.12:34-38
D '61. (MIRA 15:2)

1. Iz kafedry infektsionnykh bolezney (zaveduyushchiy - prof.
M.N.Bessonova) Belorusskogo gosudarstvennogo instituta usovershenstvovaniya
vrachey (direktor - dotsent N.Ye.Savchenko).
(DIPHTHERIA)

BESSONOVA, M.N., prof.; FELLER, G.I.

Clinical aspects of encephalitis forms of poliomyelitis. Sov. med.
25 no.8:77-80 Ag '61. (MIRA 15:1)

1. Iz kafedry infektsionnykh bolezney Belorusskogo instituta
usovershenstvovaniya vrachey (zav. - prof. M.N.Bessonova) i
Minskoy infektsionnoy klinicheskoy bol'nitsy (glavnyy vrach
Z.G.Alikina).

(POLIOMYELITIS)

BESSONOVA, M.N.; KAPLAN, Z.A. [deceased]; DOBRYAK, A.N.

Clinical aspects of salmonellosis Breslau (typhimurium) in
children. Zdrav.Bel. 8 no.7:36-38 J1 '62. (MIRA 15:11)

1. Iz kafedry infektsionnykh bolezney Belorusskogo gosudarstvennogo
instituta dlya usovershenstvovaniya vrachey (zav. kafedroy -
prof. M.N.Bessonova) i Minskoy infektsionnoy bol'nitsy (glavnyy
vrach Z.G.Alikina).

(SALMONELLA INFECTIONS)

RASKATOV, V.M., inzh.; KOKHTEV, A.A.; LELYANOV, V.A.; BESSONOVA,
N.F.; VEYS, D.A.; KARABANOVA, L.T.; SILANT'YEV, M.G.;
SITNICHENKO, A.I. [deceased]; CHYENKOV, V.S.; YARKOV, A.M.,
inzh., retsenzent; GARANKINA, S.P., red. izd-va; TIKHANOV,
A.Ya., tekhn. red.

[Brief handbook on materials used in the machinery industry]
Kratkii spravochnik po mashinostroitel'nym materialam. Pod
obshchey red, V.M.Raskatova. Moskva, Moskgiz, 1963. 440 p.
(MIRA 16:7)

(Materials)

BESSONOVA, N.M., inzh.

Roller method for applying paint and varnish to wood. Der.
prom. 11 no.7:3-5 J1 '62. (MIRA 17:1)

1. Moskovskiy lesotekhnicheskij institut.

BESSONOVA, N.M., inzh.

Mechanizing the process of filling wood pores. Der. Prom. 12 no.7:
4-6 JI '63. (MIRA 16:8)

1. Moskovskiy lesotekhnicheskii institut.
(Lumber--Inspection)

BESSONOVA, N.M.

Stable fillers of wood pores. Der. prom. 13 no.9:8-10 S '64.

(MIRA 17:11)

1. Moskovskiy lesotekhnicheskii institut.

SMIRNOVA, N.M., inzh.; BESSONOVA, T.A., inzh.

Methods of the spectral analysis of nickel-base alloys. Khim.
mashinostr. no.3:36-37 My-Je '63. (MIRA 16:11)

SEMENOVA, A. (UA9DA - Sverdlovsk); BASSINA, M. (UB5KBA - L'vov);
BESSONOVA, V. (UA4KSA - Yoshkarola); KOROTKOVA, G. (UA1KAI - Leningrad);
NAYDENOVA, M. (UB5TU - Dnepropetrovsk); LYNDINA, I. (UA4KHA -
Kuybyshev); OSIDZE, L. (UF6YL - Tbilisi); ZAYNULINA, S. (UI8KAA -
Tashkent); SHCHEKOLDINA, A. (UB5GS - L'vov)

YL replies to our inquiries. Radio no.3:14-15 Mr '62.

(MIRA 15:3)

(Radio operators)

BESSONOVA, V. I.

USSR/Miscellaneous - History of Moscow University

FD-1213

Card 1/1 Pub. 129-16/19

Author : Bessonova, V. I.

Title : ~~From the history of Moscow University. Scientific work of scientists of Moscow University in the years of the civil war (1918-1920)~~

Periodical : Vest. Mos. un., Ser. fizikomat. i yest. nauk, 9, No 5, 145-168, Aug 54

Abstract : Moscow University historically has been the greatest educational scientific institution of the country, always containing the best scientific forces of the country and pursuing important scientific investigation of significance to the state. In 1917-1918 it was comprised of four faculties (i.e. physico-mathematical, historico-philological, juridical, and medical) and more than 60 educational-auxiliary institutions (e.g. two observatories, three museums, three laboratories, etc.). In 1919 its physico-mathematical faculty was augmented by the creation of chairs of pedology (soil science) and anthropology and mathematics cabinet.

Institution :

Submitted :

MAKHNACH, A.S.; BESSONOVA, V.Ya.

Volcanic tuffs and volcanogenic sedimentary rocks from lower
Paleozoic deposits of Vitebsk District. Dokl. AN BSSR 6
no.5:316-319 My '62. (MIRA 15:6)

1. Institut geologicheskikh nauk AN BSSR i Belglavgeologiya.
(Vitebsk District—Geology, Stratigraphic)

KULIYEV, R.Sh.; SHAKHNOVICH, M.I.; SAMEDOVA, F.I.; MUSAYEV, G.T.;
CHIKAREVA, N.I.; Prinsipali uchastiy: ALIYEVA, A.; ALIYEVA, V.;
KATKOVA, O.; BESSONOVA, Ye.; KURILINA, A.

Improving the quality of transformer oil from Buzovna crude
oil. Khim. i tekhn. topl. i masel 8 no.10:16-22 0 '63.

(MIRA 16:11)

1. Institut neftekhimicheskikh protsessov AN AzerSSR.

110-58-6-9/22

AUTHORS: Shakhnovich, M.I., Sokolova, S.L., Bessonova, Ye.I.,
Engineers and Lipshteyn, R.A., Candidate of Technical Sciences

TITLE: The Influence of Solid Insulating Materials on Transformer
Oil in the Absence of Oxygen (Vliyaniye tverdykh izolyatsion-
nykh materialov na transformatornoye maslo pri otsutstvi
kisloroda)

PERIODICAL: Vestnik Elektropromyshlennosti, 1958, Nr 6,
pp 41 - 45 (USSR).

ABSTRACT: Hermetic sealing of transformers is a valuable means of
protecting the oil from oxidation provided that the sealing is
perfect. If there are slight leaks, volatile acids may accumu-
late in the transformer with inconvenient results. After these
prefatory remarks, the article considers the influence that
solid insulating materials have on oil in the absence of oxygen.
Straight mineral transformer oil to standard GOST-982-53 was
used for the tests, the oil and transformer constructional
materials being contained in sealed glass vessels. In all tests,
there was 1.5 cm² of material per 1 g oil, after the oil and
insulating materials had first been dried and de-gassed. The
tests were run at 95 °C for 1 000 hours: then determinations
were made of the neutralisation and saponification values, the
ester number, the water-soluble acids content, the dielectric-loss

Card1/4

110-58-6-9/22

The Influence of Solid Insulating Materials on Transformer Oil in the Absence of Oxygen

angle and the refractive index.

Tests were undertaken on insulating varnishes and showed that glyptal-based varnishes could give rise to organic acids up to 0.2 mgKOH/g and water-soluble acids up to 0.1 mg KOH/g. As this effect is not observed when tests are made with exposure to air, it is supposed that some of the acids derived from glyptal-based varnishes are volatile. This is very important because low-molecular-weight acids can be dangerous. Bakelite resins have little influence on the oil beyond increasing the power factor somewhat but, in this respect, none of the varnishes acted dangerously. The test results given in Table 3 show that in the absence of oxygen, copper has no deleterious effect on the oil; also, if the copper is protected from contact with the oil by varnish, then the varnish is more likely to damage the oil than is the copper. This, too, is not observed in tests with exposure to atmosphere. Iron insulated with paper has less effect on the oil than iron insulated by varnish, which is again the opposite of what is observed when there is access to air during the tests.

Card2/4

110-58-6-9/22

The Influence of Solid Insulating Materials on Transformer Oil in the Absence of Oxygen

Most types of solid insulation had little effect on the chemical properties of the oil but varnished cloth caused an increase in the neutralisation value and particularly in the content of low-molecular-weight acids. Oil-resistance rubber increased the power factor of the oil and a white deposit was formed that contained zinc and presumably resulted from decomposition of the rubber. The rubber itself did not swell by more than 10%, which is the limiting value in the appropriate standard and as it obviously had a deleterious effect on the oil, it follows that the standard is inadequate. Bakelised paper tubes increased the power factor of the oil, presumably because the bakelite varnish was not thoroughly polymerised, for the varnish alone had no such effect.

Card 3/4

11C.58-6-9/22
The Influence of Solid Insulating Materials on Transformer Oil in
the Absence of Oxygen

There are 4 tables and 4 references, 3 of which are Soviet
and 1 English.

ASSOCIATION: Moskovskiy transformatornyy zavod (Moscow Transformer
Works) and VTI

SUBMITTED: December 9, 1957

Card 4/4 1. Oils--Insulations 2. Transformers--Materials

J. 9104-65 EWT(m)/EPF(c)/EWP(j)/T Pg-4/Pr-4 DJ/RM

ACCESSION NR: AT3001318

3/2933/34/005/000/0225/0230

AUTHOR: Shakhnovich, M. I.; Ye. I. Bessonova; A. I. Kurillna

TITLE: A study of the stability of sulfur-containing insulating oils B

SOURCE: AN SSSR. Bashkirskiy filial. Khimiya serraorganicheskikh soedineniy, soderzhashchikh v neft'yakh i nefteproduktakh, v. 5, 1983, 225-230

TOPIC TAGS: crude oil, transformer oil, insulating oil, phenol refining, hydrotreating, oil chemical stability, oil oxidation, oil aging, anthranilic acid

ABSTRACT: The authors investigated the oxidizability and physical properties (density, birefringence, viscosity and dielectric loss) of transformer oils obtained as experimental samples, pilot-plant samples and commercial oils from various crude petroleums by different refining methods. Data on oxidizability obtained by the express method (oxidation in the presence of an alternating electric field, 49 kv/cm², at 100C for 44 hours under static conditions in an oxygen atmosphere with a copper or iron catalyst) showed that hydro-refined oils are generally more resistant to oxidation than oils obtained by phenol extraction. The apparatus for the express testing method is illustrated. Data on oxidizability obtained by the 1000-hour aging method (aging at 95C with a copper catalyst and a free access of air to the oil surface) are tabulated and show that at 70C and above, for phenol-

Card 1/2

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ACCESSION NR: AT3001318

2

refined oils, $\text{tg } \delta$ (the angle of dielectric loss) is already increased by 100% after 240 hrs.; the corrosion of copper is also increased. For hydrorefined oils, the stability of the electrical properties is higher ($\text{tg } \delta$ at 70C is increased not more than 12%), and the corrosion is low. Studies of the variation in the mechanical insulating properties of different oils due to aging showed that hydrorefined oils suffer only minimal damage to the cellulose material in them. The activating or passivating effect of additives on copper, as a catalyst of oxidation for oils, was also investigated. The use of 0.05% anthranilic acid was successful with many phenol-refined oils. For example, positive results were shown by the commercial oil from Baku crude. Some of the samples and data were provided by the Institut organicheskoy khimii BashFAN SSSR (Institute of Organic Chemistry, Bashkir Branch, AN SSSR). Orig. art. has: 2 figures and 4 tables.

ASSOCIATION: Moskovskiy elektrozavod im. V. V. Kuyby*sheva (Moscow Electric Plant)

SUBMITTED: 00

ENCL: 00

SUB CODE: FP, 10

NO REF SOV: 003

OTHER: 000

2/2

Card

SHAKHNOVICH, M.I., kand.tekhn.nauk; KOGAN, L.M., kand.tekhn.nauk; BESSONOVA,
Ye.I., inzh.

Hexachlorobutadiene, an electrically insulating and cooling
liquid for transformers. Elektrotehnika 36 no.2:30-32 F '65.
(MIRA 18:4)

BESSONOVA, Ye.M.

Photocolorimetric method for determining the number of erythrocytes.
Lab. delo 5 no.3:9-10 My-Je '59. (MIRA 12:6)

1. Iz gematologicheskoy laboratorii (zav. S.A. Troitskiy) Gor'kovskogo
instituta gigiyeny truda i profbolesney Ministerstva zdavookhraneniya RSFSR.
(COLORIMETRY) (PHOTOELECTRIC MEASUREMENTS)
(ERYTHROCYTES)

BESSONOVA, Ye. S.

On 21 June 1946, at the Power Engineering Institute named Molotov, defended her dissertation on "The Problems of Determining Amplitude in Resonance and Band Systems". Official opponents - Doctor of Technical Sciences Professor A. N. Shchukin, and Stalin Prize Winner Engineer Yu. B. Kobzarey.

So: Elektrichestvo, No 4, April 1947, pp 90-94 (U-5577, 18 February 1954)

With the aid of Van der Pol's method a general solution was obtained for a system consisting of an arbitrary number of tank circuits and with arbitrary attenuations and distortions of the input signal. For numerous cases of resonating, band, and three-circuit amplifiers calculation formulas were derived and curves were constructed for determining the dependence of the nonstationary process in various circuits on the tuning, number of circuits, and shape of the resonance curve. A comparison of the types of amplifiers examined was presented.

So: IBID